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NOTICE OF ALLOWANCE AND FEE(S) DUE

79867 7590 11/18/2008

Workman Nydegger/EMC 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, UT 84111 EXAMINER PHILLIPS, HASSAN A

PAPER NUMBER

ART UNIT 2451 DATE MAILED: 11/18/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBUTION NO.

 09/777.002
 02/05/2001
 Gregory Hagan Moulton
 16/92/6.3
 5.465

TITLE OF INVENTION: SYSTEM AND METHOD FOR INTELLIGENT, GLOBALLY DISTRIBUTED NETWORK STORAGE

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 YES
 \$755
 \$300
 \$0
 \$1055
 02/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	II be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for	
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79867 Workman Nyd 1000 Eagle Gate 60 East South To	Tower emple	/2008	Lhe	Cert	ificate	of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.	
Salt Lake City, I	J1 84111						(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO		CONFIRMATION NO.	
09/777,002 TITLE OF INVENTION	02/05/2001 S SYSTEM AND METE	OD FOR INTELLIGEN	Gregory Hagan Moulton T, GLOBALLY DISTRIBU	UTED NETWORK	STOR	16192.76.3 AGE	5465	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$755	\$300	\$0		\$1055	02/18/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
PHILLIPS,	HASSAN A	245I	709-244000	•				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl recordation as set fort	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.II. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2		3 registered patent rely, e firm (having as a agent) and the name meys or agents. If n printed. ec) stent. If an assigne assignment.	memb s of up o nam	er a 2	ocument has been filed for	
(A) NAME OF ASSI Please check the appropr 4a. The following fee(s).	iate assignee category or	categories (will not be pr	(B) RESIDENCE: (CITY inted on the patent):	Individual 🚨 Co	porati	on or other private gro	oup entity Government	
Issue Fee Publication Fee (N	wo small entity discount p	permitted)	A check is enclosed. Payment by credit can	d. Form PTO-2038	is atta	ched.	ficiency, or credit any n extra copy of this form).	
 Change in Entity Sta a. Applicant claim 	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no long	ger claiming SMAL	LENT	TTY status. Sec 37 Cl	FR 1.27(g)(2).	
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Authorized Signature				Date				
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This collection of inform an application. Confiden submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC it3-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR 6	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any cor r, U.S. Patent and 7 D THIS ADDRESS.	e publ inutes nment fraden SENI	ic which is to file (and to complete, includir s on the amount of til ark Office, U.S. Dep D TO: Commissioner	I by the USPTO to process) ig gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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09/777,002		02/05/2001	Gregory Hagan Moulton	16192.76.3	5465
79867	7590	11/18/2008		EXAMINER	
Workman N	ydegger/E	MC	PHILLIPS, HASSAN A		
1000 Eagle G	ate Tower		ART UNIT	PAPER NUMBER	
60 East South Salt Lake City		1	2451 DATE MAILED: 11/18/200	s	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 719 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 719 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 09/777.002 MOULTON ET AL. Notice of Allowability Examiner Art Unit HASSAN PHILLIPS 2451 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to communications filed on August 4, 2008. The allowed claim(s) is/are 1-7,12-22 and 24-30. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 8/4/08 ☐ Examiner's Comment Regarding Requirement for Deposit. 8. X Examiner's Statement of Reasons for Allowance of Biological Material

/Hassan Phillips/ Examiner, Art Unit 2451 Other .

Application/Control Number: 09/777,002

Art Unit: 2451

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with R. Burns Israelsen (42,685) on October 30, 2008.

The application has been amended as follows:

Claim 14. A method of managing distributed data storage comprising the acts of:

providing a plurality of distributed storage nodes, each node existing at a physical location and each node having one or more associated contexts that relate to storage characteristics of each node, the contexts including first contexts including a political context, an economic context, and a geographic context that are associated to at least the physical location and second contexts including a network topological context that are associated with attributes of the storage node:

receiving a data storage task in one of the storage nodes;

determining desired criteria associated with the received data storage task, wherein the desired criteria define storage characteristics for the data storage task; Application/Control Number: 09/777,002

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selecting one or more of the plurality of storage nodes by matching the desired criteria to the associated first and second contexts, wherein the selected one or more of the plurality of storage nodes have first and second contexts that satisfy the desired criteria; and

executing the storage task in the one or more selected storage nodes.

Claim 27. A data storage service comprising:

receiving data storage access requests from a file system, the storage access requests including performance criteria that defines storage requirements for data associated with the storage access requests;

maintaining a state information data structure including state information describing the contexts of a number of network-accessible storage devices, wherein first contexts include a political context, an economic context, and a geographic context that are related to a physical location of the network-accessible storage devices and second contexts including include a network topological context that is related to attributes of the network-accessible storage devices and wherein the first and second contexts are used to discriminate between storage characteristics of the number of network-accessible storage devices; and

using the first and second contexts from the state information to allocate capacity within the network-accessible storage devices to handle the received data storage request by using eapacity network-accessible storage devices having contexts that satisfy the performance criteria.

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: applicant has made significant amendments to the recited claims to clearly define the claimed invention so that the claimed invention distinguishes from the teachings of the prior art. More specifically, the prior art fails to teach or suggest that both first contexts including a political context, an economic context, and a geographic context related to the physical location of a storage node and second contexts including a network topological context related to attributes of a storage node are used to identify and select storage nodes to serve a data storage access request, as similarly recited in independent claims 1, 14, and 27.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN PHILLIPS whose telephone number is (571)272-3940. The examiner can normally be reached on Mon-Fri (8am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hassan Phillips/

Examiner, Art Unit 2451